

1 **IN THE CLAIMS:**

2 1. (currently amended) A pistol with magazine disconnect mechanism lock
3 comprising:

4 a frame that holds a magazine;

5 a hammer pivotally mounted to the frame on a pin;

6 a sear engageable with the hammer, the sear operable to hold the hammer in a
7 cocked position and further to release the hammer from the cocked position to
8 discharge the pistol;

9 a locking member movable into and out of engagement with the sear in response
10 to removing the magazine from and inserting the magazine into the pistol, the locking
11 member pivotally mounted on the hammer pin and further comprising a hook
12 configured to engage ~~engaging~~ the sear when the magazine is removed to prevent the
13 sear from moving and releasing the hammer while held in the cocked position by the
14 sear.

1 2. (original) The pistol of claim 1, wherein the magazine contacts and
2 moves the locking member in a first direction to disengage the locking member from the sear
3 when the magazine is inserted into the pistol.

1 3. (original) The pistol of claim 2, wherein the magazine breaks contact
2 with and moves the locking member in a second direction to engage the sear when the
3 magazine is removed from the pistol.

1 4. (original) The pistol of claim 1, wherein the locking member is vertically
2 movable from a first position in which the locking member does not engage the sear to a
3 second position in which the locking member engages the sear.

1 5. (original) The pistol of claim 1, further comprising a biasing member to
2 bias the locking member into engagement with the sear.

1 6. (currently amended) The pistol of claim 1, wherein the locking member
2 is pivotally mounted to the frame above the sear ~~and movable in a pivotal manner into and out~~
3 ~~of engagement with the sear.~~

1 7. (original) The pistol of claim 1, wherein the locking member further
2 comprises a mounting portion and a blade protruding outwards and forward therefrom, the
3 mounting portion containing a hole that receives the hammer ~~a pivot~~ pin to mount the locking
4 member to the frame and provide pivotal movement of the locking member in response to
5 removing and inserting the magazine.

1 8. (currently amended) The pistol of claim 1 7, further comprising a trigger
2 pivotally mounted to the frame, the trigger including a hook configured to engage a catch on a
3 magazine insertable into the frame, wherein the trigger hook engages the catch to prevent the
4 magazine from being removed from the pistol when the trigger is partially pulled ~~hammer and~~
5 ~~the locking member are pivotally mounted to the frame on a common pivot pin disposed~~
6 ~~laterally in the frame.~~

1 9. (original) The pistol of claim 7, wherein the blade further comprises a
2 straight portion and an angled portion that laterally protrudes into the path of the magazine as it
3 is inserted into the pistol and contacts the magazine to impart movement to the locking
4 member.

1 10. (original) The pistol of claim 9, wherein the angled portion is disposed at
2 an angle of about 40 degrees to the straight portion.

1 11. (original) The pistol of claim 9, wherein the angled portion contains a
2 vertically-inclined front surface to contact the magazine.

1 12. (currently amended) The pistol of claim 1, wherein the locking member
2 is pivotally mounted above the sear ~~further comprises a hook configured to engage and prevent~~
3 ~~the sear from moving.~~

1 13. (currently amended) The pistol of claim 1 12, wherein the hook further
2 comprises a generally square-shaped recess configured to engage a complimentary square-
3 shaped protrusion on the sear.

1 14. (currently amended) A pistol with magazine disconnect mechanism lock
2 comprising:

3 a frame defining an open cavity to receive a magazine;

4 a hammer pivotally mounted to the frame by a pin;

5 a trigger pivotally mounted to the frame;

6 a sear pivotally mounted to the frame on a stationary pin and movable in
7 response to a user pulling the trigger, the sear engageable with the hammer and
8 operable to hold the hammer in a cocked position, and further operable to release the
9 hammer from the cocked position in response to pulling the trigger to discharge the
10 pistol;

11 a pivoting locking member movable into and out of engagement with the sear in
12 response to inserting and removing the magazine from the frame cavity, the locking
13 member pivotally mounted in the frame and further comprising a hook configured to
14 engage and prevent the sear from moving, the locking member movable between:

15 a non-locking position in which the locking member is disengaged from the sear
16 which is freely movable when the magazine is inserted in the frame, and

17 a locking position in which the locking member engages the sear to prevent the
18 sear from moving and releasing a cocked hammer when the magazine is removed from
19 the frame.

1 15. (original) The pistol of claim 14, further comprising a biasing member to
2 bias the locking member into engagement with the sear.

1 16. (currently amended) The pistol of claim 14, wherein the hook further
2 comprises a generally square-shaped recess configured to engage a complimentary square-
3 shaped protrusion on the sear ~~further comprises a protrusion and locking member further~~

4 comprises a hook having a recess configured to receive the protrusion and prevent the sear
5 from moving.

1 17. (original) The pistol of claim 14, wherein the locking member further
2 comprises a blade having a straight portion and an angled portion thereto that protrudes into the
3 cavity in the frame that receives the magazine, the angled portion positioned to contact the
4 magazine when it is inserted into the frame.

1 18. (original) The pistol of claim 17, wherein the angled portion is disposed
2 at an angle of about 40 degrees to the straight portion of the blade.

1 19. (original) The pistol of claim 14, wherein the trigger further comprises a
2 hook and the magazine further comprises a catch to engage the hook, the hook positioned to
3 engage the catch to prevent the magazine from being removed from the pistol if the trigger is
4 partially pulled rearwards.

1 20. (original) The pistol of claim 19, wherein the hook is located on a rear
2 surface of the trigger and the catch is located on a front surface of the magazine.

1 21. (currently amended) A method of disabling the discharge of a pistol
2 having a magazine and a frame to receive the magazine, the method comprising:
3 inserting the magazine into the frame;
4 cocking a hammer that is pivotally mounted in the frame on a pin to strike a
5 firing pin and discharge the pistol;
6 engaging the cocked hammer with a pivoting sear mounted on a stationary pin
7 in the frame to hold the hammer in position, the sear being movable to release the
8 hammer to strike the firing pin;
9 removing the magazine from the frame; and
10 moving a locking member having a hook simultaneously with removing the
11 magazine; and
12 engaging the hook into engagement with the sear to prevent the sear from
13 moving to release the cocked hammer and discharging the pistol.

1 22. (original) The method of claim 21, further comprising the step of
2 reinserting the magazine into the frame, and disengaging the locking member from the sear
3 simultaneously with reinserting the magazine to allow the sear to move to release the cocked
4 hammer.

1 23. (new) A magazine disconnect mechanism for a pistol comprising:
2 a frame defining an open cavity to receive a magazine, the magazine having a
3 catch on an outer surface;
4 a hammer pivotally mounted to the frame;
5 a trigger pivotally mounted to the frame and including a hook configured to
6 engage the magazine catch;
7 a sear pivotally mounted to the frame and movable in response to a user pulling
8 the trigger, the sear engageable with the hammer and operable to hold the hammer in a
9 cocked position, and further operable to release the hammer from the cocked position in
10 response to pulling the trigger to discharge the pistol;
11 a pivoting locking member movable into and out of engagement with the sear in
12 response to inserting and removing the magazine from the frame cavity, the locking
13 member pivotally mounted in the frame and further comprising a hook configured to
14 engage and prevent the sear from moving, the locking member movable between:
15 a non-locking position in which the locking member is disengaged from the sear
16 which is freely movable when the magazine is inserted in the frame, and
17 a locking position in which the locking member engages the sear to prevent the
18 sear from moving and releasing a cocked hammer when the magazine is removed from
19 the frame;
20 wherein partially pulling the trigger engages the trigger hook with the magazine
21 catch to prevent the magazine from being removed from the pistol.

1 24. (new) The pistol of claim 23, wherein the trigger hook protrudes towards
2 the magazine cavity and the magazine catch faces towards the trigger.

1 25. (new) A magazine disconnect mechanism for a pistol with barrel
2 defining a longitudinal axis, the mechanism comprising:
3 a frame defining an open cavity to receive a magazine;
4 a hammer pivotally mounted to the frame;
5 a trigger pivotally mounted to the frame;
6 a sear pivotally mounted to the frame and movable in response to a user pulling
7 the trigger, the sear engageable with the hammer and operable to hold the hammer in a
8 cocked position, and further operable to release the hammer from the cocked position in
9 response to pulling the trigger to discharge the pistol;
10 a pivoting locking member movable into and out of engagement with the sear in
11 response to inserting and removing the magazine from the frame cavity, the locking
12 member pivotally mounted in the frame and further comprising a hook configured to
13 engage and prevent the sear from moving, the locking member biased into engagement
14 with the sear by a biasing member, the locking member movable between:
15 a non-locking position in which the locking member is disengaged from the sear
16 which is freely movable when the magazine is inserted in the frame, and
17 a locking position in which the locking member engages the sear to prevent the
18 sear from moving and releasing a cocked hammer when the magazine is removed from
19 the frame;
20 wherein the locking member further comprises a straight portion and an angled
21 portion that laterally protrudes at an angle to the longitudinal axis of the pistol into the
22 magazine cavity and contacts the magazine as it is inserted into the pistol to displace the
23 locking member to the non-locking position.

1 26. (new) The pistol of claim 25, wherein the locking member is pivotally
2 mounted above the sear.